

**Commonwealth of Kentucky
Division for Air Quality**

PERMIT APPLICATION SUMMARY FORM

Completed by: D. Brian Ballard, P.E.

GENERAL INFORMATION:

Name: Toyota Motor Manufacturing Kentucky, Incorporated
Address: 1001 Cherry Blossom Way, Georgetown, KY 40324
Date application received: July 1, 2008
SIC/Source description: 3711/Automobile Assembly
EIS #: 21-209-00030
Source A.I. #: 7998
Activity #: APE20080008
Permit number: V-04-027 (Revision 4)

APPLICATION TYPE/PERMIT ACTIVITY:

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input checked="" type="checkbox"/> Permit modification	<input type="checkbox"/> Conditional major
___Administrative	<input checked="" type="checkbox"/> Title V
___Minor	<input type="checkbox"/> Synthetic minor
<input checked="" type="checkbox"/> Significant	<input checked="" type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input checked="" type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input checked="" type="checkbox"/> PSD	<input checked="" type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:017, 1(23)(b) or 51:052,1(14)(b)	

MISCELLANEOUS:

☐ Acid rain source
☐ Source subject to 112(r)
☐ Source applied for federally enforceable emissions cap
☐ Source provided terms for alternative operating scenarios
☒ Source subject to a MACT standard
☐ Source requested case-by-case 112(g) or (j) determination
☐ Application proposes new control technology
☒ Certified by responsible official
☒ Diagrams or drawings included
☐ Confidential business information (CBI) submitted in application
☐ Pollution Prevention Measures
☐ Area is non-attainment (list pollutants):

EMISSIONS SUMMARY:

TABLE 1- Actual and Potential Source-wide Criteria Pollutant Emissions

POLLUTANTS	ACTUAL (TPY)	V-04-027 (REVISION 1) PTE (TPY)	V-04-027 (REVISION 2) PTE (TPY)	V-04-027 (REVISION 3) PTE (TPY)	V-04-027 (REVISION 4) PTE (TPY)
CO (CARBON MONOXIDE)	26	448	607	607	607
NO ₂ (NITROGEN DIOXIDE)	30	518	708	708	708
PM ₁₀ (PARTICULATE MATTER < 10 MICRONS)	160	385	311	311	303
PT (PARTICULATE MATTER)	160	385	311	311	303
SO ₂ (SULFUR DIOXIDE)	0.25	5.2	6.3	6.3	6.3
VOC (VOLATILE ORGANIC COMPOUNDS)	1,704	6,277	5,905	5906	5880

TABLE 2- Actual and Potential Source-wide HAP Emissions

POLLUTANT	CAS No.	ACTUAL (TPY)	POTENTIAL (TPY)
Benzene	71-43-2	0.9	1.2
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	8.6	10.4
Chlorobenzene	108-90-7	3.6	3.9
Cumene	98-82-8	27.3	34.5
Ethyl benzene	100-41-4	310	368
Ethylene glycol	107-21-1	127	149
Formaldehyde	50-00-0	42.3	48.8
Hexane*	110-54-3	17.4	31.4
Methanol	67-56-1	281	353
Methyl chloroform (1,1,1-trichloroethane)	71-55-6	0.22	0.27
Methyl isobutyl ketone	108-10-1	294	390
Methylene diphenyl diisocyanate (MDI)	101-68-8	1.57	1.71
Naphthalene	91-20-3	109	118
Phthalic anhydride	85-44-9	5.25	6.16
Styrene	100-42-5	72.6	79.0
Toluene	108-88-3	629	755
Triethylamine	121-44-8	15.6	15.8
Xylenes (isomers and mixture)	1330-20-7	1134	1362

EMISSIONS SUMMARY (CONTINUED):

The potential to emit values for Hazardous Air Pollutant (HAP) emissions listed above are based on the air toxics modeling report included with the 2004 Title V permit application. The potential to emit values listed above consider VOC emission limits where applicable. *Hexane emissions are not based on the aforementioned data. Potential hexane emissions have been updated to reflect the hexane emitted from natural gas combustion.

EMISSION AND OPERATING CAPS:

The following emission limits are being proposed as BACT in permit V-04-027 (Revision 4):

<i>Emission Unit</i>	<i>Operations</i>	<i>PM Limit (lbs/hr)</i>
C03/C14	Combined Welding Activities Lines 1 & 2 (100/100A)	14.48

The proposed PM emission limit for the Body Operations shop is 39.6 tons per rolling twelve month total for the entire shop. The proposed VOC emission limits for the Body Operations shop are 176.1 tons per rolling twelve month total for Line 2 and 399.4 tons per rolling twelve month total for the entire shop. The maximum weld wire usage for all Body Operations shop arc welding operations would be limited to 463.6 lb/hr.

OPERATIONAL FLEXIBILITY: N/A

SOURCE PROCESS DESCRIPTION:

See Statement Of Basis